

# Chem 1301A (Fall 2022–23)

## Discovering Chemical Structure

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**Welcome to Chem 1301A! Please read and keep this course outline handy, because it is an official document that contains important course information.**

Course Description & Prerequisite Requirements.....	2
Key Dates .....	2
Course Website.....	3
Learning Outcomes.....	3
Class Topics .....	4
Course Materials.....	5
Course Personnel, Lecture Info, and Contact Info.....	6
Learning Support and Resources .....	7
OWL Forums.....	7
Chemistry Resource Room.....	7
Instructors' Student Hours.....	7
Learning Development & Success.....	7
Tutors.....	7
Laboratory Information .....	8
Section, Schedule, and Location .....	8
Lateness Policy.....	8
Safety and Dress Code .....	9
Preparation .....	9
Lab Submissions.....	9
Evaluation .....	10
Components.....	10
iClicker.....	11
Equal Opportunity and Evaluation Policy.....	11
Common Concerns.....	12
Student Absences and Missed Course Components .....	12
How to Attain Your Goals in Chem 1301A.....	15
Academic Policies and Legalities.....	16
Additional Support Services.....	17

## Course Description & Prerequisite Requirements

Calendar description: *An introduction to the foundational principles of chemical structure and properties, emphasizing their relevance to modern science. Topics include: atomic structure, theories of chemical bonding, structure and stereochemistry of organic molecules, and structure of coordination complexes.*

Extra information: 3 lecture hours, 1.5 laboratory hours. 0.5 course. Fully in-person.

Prerequisite: Grade 12U Chemistry or equivalent. Antirequisites: Chem 1024A/B.

Unless you have either the prerequisites for this course or written special permission from your Dean to enroll in it, you may be removed from this course and it will be deleted from your record. This decision may not be appealed. You will receive no adjustment to your fees in the event that you are dropped from a course for failing to have the necessary prerequisites.

Students repeating the course must repeat the lab component. There are no exemptions.

## Key Dates

Date	Event
Wednesday, September 14	In-class Diagnostic Quiz based on high-school chemistry
Friday, September 16 ("Add deadline")	Last day to make registration changes, such as lecture and lab sections. This is the last day to de-register from a fall-term or full-year course and remove it from your academic record.
Sunday, September 18	Online assignment on administrative matters due at 11:55 pm
Week of September 19	Lab location and link to Achieve sign-up will be posted on OWL under <i>PostEm</i>
Week of September 26	First week of laboratory rotations
Saturday, October 1	In-person October Quiz (8:15–9:15 pm). Room assignments will be posted on OWL under <i>PostEm</i> .
Saturday, October 29	In-person Midterm Test (7:30–9:30 pm). Room assignments will be posted on OWL under <i>PostEm</i> .
Friday, November 12 ("Drop deadline")	Last day to drop a fall-term course without academic penalty. If you drop the course on or before this date, it will be shown on your academic record as WDN (withdrawn). Dropping after this date will result in a WDF, which counts as an F.

## Course Website

News, course updates, and relevant materials will be posted on Western's learning management system, OWL (<http://owl.uwo.ca>). This is the primary method by which information will be disseminated to all students in the class, so you are responsible for checking OWL on a frequent basis.

If you need technical assistance with OWL, seek support on the OWL Help page. Alternatively, contact the Western Technology Services Helpdesk by phone at 519-661-3800 or extension 83800.

## Learning Outcomes

Chem 1301A has an emphasis on the development of skills such as critical thinking, problem solving, and quantitative reasoning; these “professional skills” are essential to success in not just chemistry but also in other courses and in many occupations. A student receiving credit for Chem 1301A will be expected to reliably demonstrate competence in their ability to:

<b>Discipline-Specific Expectations</b>	<b>Professional-Skill Expectations</b>
Describe the importance of chemistry in everyday life and the interdisciplinary nature of chemistry.	Analyze and critically assess problems, and take a systematic approach to solve them.
Use critical thinking skills to explain, make connections between, and apply chemical principles, laws, and theories pertaining to fundamental chemistry, atomic theory, molecular shape & structure, and the various properties of matter.	Work independently, as well as with others in an effective, practical, social, and ethical manner.
Evaluate and assess chemical data and explain how they relate to chemical theories/laws.	Obtain, evaluate, and integrate information from various sources, and determine its relevance.
Apply chemical theories or laws to solve a variety of new qualitative and quantitative chemical problems.	Prioritize tasks and manage the use of time.
Conduct experiments and draw conclusions from collected experimental data and results.	Execute mathematical calculations accurately.
Safely use a variety of laboratory equipment and instrumentation to perform experimental procedures and explain the underlying theory behind all of them.	Communicate thoughts, ideas, and observations verbally and in writing.
	Recognize when to seek assistance.
	Develop respect for, and comply with, regulations and policies.
	Accept responsibility for their decisions, actions, and inactions.

## Class Topics

Workbook Chapter	Class Topic	Approx # of Classes
	Welcome	1
1	Self-Study Concepts <ul style="list-style-type: none"><li>This will not be on tests or the final exam, but key concepts will be on lab reports.</li></ul>	0
	Diagnostic Quiz (based on high-school chemistry)	1
2.1	Atomic Theory <ul style="list-style-type: none"><li>Atomic structure, orbitals, electron configuration</li></ul>	5
2.2	Periodic Properties	2
3.1	Ionic and Covalent Bonding <ul style="list-style-type: none"><li>Lewis structures, resonance, bond polarity</li></ul>	5
3.2	VSEPR Theory <ul style="list-style-type: none"><li>Shapes and polarity of molecules</li></ul>	2
3.3	Intermolecular Forces	1
3.4	Valence Bond Theory <ul style="list-style-type: none"><li>Hybridization and formation of <math>\sigma</math> and <math>\pi</math> bonds</li></ul>	2
3.5	Molecular Orbital Theory	2
4	Transition Metals <ul style="list-style-type: none"><li>Coordination complexes and crystal field theory</li></ul>	4
5.1	Functional Groups and IR Spectroscopy	2
5.2	Alkanes and Cycloalkanes <ul style="list-style-type: none"><li>Constitutional isomerism and conformations</li><li><i>cis/trans</i> isomerism of substituted cycloalkanes</li></ul>	3
5.3	Alkenes and Alkynes <ul style="list-style-type: none"><li><i>cis/trans</i> isomerism and <i>E/Z</i> nomenclature of alkenes</li></ul>	2
5.4	Chirality <ul style="list-style-type: none"><li><i>R/S</i> nomenclature of tetrahedral stereocentres</li></ul>	2

In all of the topics, the primary focus is on the *understanding* and *application* of the concepts. Accordingly tests and exams will be designed to evaluate your comprehension of the material and your ability to apply it to new and different scenarios. Students should not expect questions that simply test your ability to regurgitate memorized facts or substitute numbers into formulas.

# Course Materials

## Chemistry 1301A Course Workbook, 2022–23 edition

- Classes, tests, and exams will be based on this year's edition. Classes are designed to help you understand material from the workbook and develop problem-solving skills. To obtain the maximum benefit from the workbook and from the classes, it is recommended that you read the relevant topics before coming to class.

## Chemistry 1301A Laboratory Manual and Past Tests & Exams, 2022–23 edition

- Old editions may not be used. Students must bring the current edition to every experiment.
- The course has partnered with Macmillan for the lab component. Macmillan's Achieve platform will be used for lab submissions. An access code is located in the lab manual.
- **You will be provided with a link for signing up on Achieve during the week of September 19<sup>th</sup>. You must sign up using your Western email address before your first lab.**

Your Western email ends in  
@uwo.ca.

Using any other email will  
result in mark of zero on the  
lab component.

## Safety Glasses

- Safety glasses are included with the purchase of the laboratory manual. Redemption details will be posted on OWL. We do not rent safety glasses.

## Lab coat

- For your safety, a proper lab coat is required. Scrubs or "consultation coats" are not acceptable, because they are too short, do not offer enough protection to the upper body, or are not sufficiently fire-resistant.
- The lab coat can be purchased at the bookstore or obtained elsewhere. Past students have brought one from a place that they worked at, the Ontario Science Centre, etc. The lab coat can be of any colour and even tie-dyed! Sorry, we do not rent lab coats.

## Molecular model kit, by Darling Models

- Other model kits may be used, but we highly recommend this kit for its ease of use.

## Web-enabled device (phone, tablet, laptop, etc.) for the iClicker component

## Sharp EL-510R, EL-510RN, EL-510RT, or EL-510RTB scientific calculator

- To ensure fairness to everyone in the course, only the Sharp EL-510R, EL-510RN, EL-510RT, and EL-510RTB calculator models are permitted in the labs and during tests and exams. All other brands and Sharp models will be confiscated. Proctors and instructors for tests and exams do not lend calculators. It is your responsibility to bring the correct calculator and to ensure that it is in proper working order. It is a good idea to bring a spare calculator of the same model. Obviously, you will not be allowed to share calculators during tests and exams.

## Course Personnel, Lecture Info, and Contact Info

Throughout the term, three course instructors, a lab coordinator, an undergraduate assistant, a counselling assistant, and many teaching assistants support your learning.

<b>Lecture Locations/Times and Instructors</b>	Felix Lee*	MWF 8:30–9:20	NSC 1
	Kanwal Tanwir	MWF 9:30–10:20	NSC 145
*course coordinator	Christina Booker	MWF 12:30–1:20	NSC 145
	Kanwal Tanwir	MWF 1:30–2:20	NSC 145
<b>Lab Coordinator</b>	M. Naeem Shahid	MSA 1235	
<b>Undergraduate Assistant</b>	Evan Branidis	CHB 119	
<b>Counselling Assistant</b>	Diana Ali	CHB 119	

To contact any team member, please submit a service ticket at:

<https://help.sci.uwo.ca/servicedesk/customer/portal/14>

Direct emails to course personnel will not be accepted.

The ticketing system should only be used for administrative purposes. Tickets are triaged during regular business hours and answered in the order of importance. To allow the Chem 1301A team to respond to administrative concerns as quickly as possible, please do not send tickets containing:

- Questions about course material or on how to do a particular problem in the workbook. Such questions should be taken to the Resource Room or posted on the OWL forum.
- Questions that can be answered based on the information found in this course outline.
- Requests for grade increases, extra assignments, make-up labs, or similar.

Constructive feedback is valuable to us. Please do not hesitate to contact us if you have any comments or feedback on any aspect of Chem 1301A. We are always trying to improve the course so that we can improve your experience!

# Learning Support and Resources

## OWL Forums

The forums on OWL provide an engaging venue for students to collaboratively discuss course concepts. Course TAs will be participating in the discussions.

## Chemistry Resource Room

The Chemistry Resource Room, located in Thames Hall 2192, provides you with an informal environment for you to ask questions related to lecture material and obtain assistance on practice problems. Group work and peer-to-peer support are strongly encouraged.

During scheduled hours, which will be posted on OWL, the Resource Room will be staffed by a highly qualified teaching assistant. Virtual (online) sessions will also be available.

## Instructors' Student Hours

Course instructors have student hours (office hours) that can be scheduled by appointment through the ticketing system. Each course instructor supports many students, so please note that these hours are set aside for concerns (e.g. learning strategies, personal matters, etc.) that cannot be addressed through the OWL forums or the Resource Room. That way, if you have such concerns, you can be assured that you will have someone to talk to!

## Learning Development & Success

Learning-skills professionals at LDS (<https://learning.uwo.ca/>) are ready to help you improve your learning skills. They offer presentations on strategies for improving time management, multiple-choice exam preparation/writing, textbook reading, and more. Individual support is offered throughout the Fall/Winter terms in the drop-in Learning Help Centre, and year-round through individual counselling. LDS also runs a Peer Assisted Learning Centre.

## Tutors

Private, third-party review or tutor services are not affiliated with, or endorsed by Western. As such, the university cannot be responsible for any of the content they provide, even if the content causes you to answer exam questions incorrectly. Because of liability reasons, your instructors are not permitted to suggest or recommend any specific tutors.

Students should realize that they may not hire tutors who are Chem 1301A teaching assistants, even if they are not from your own lab section. This is a serious legal matter pertaining to conflict of interest.

# Laboratory Information

## Section, Schedule, and Location

The laboratory section in which you are registered is the only section that you may attend. The section number can be found on your timetable on Student Centre. For example, a student with the timetable shown below would be registered in section 024.

Term 1 Schedule					
Time	Mon	Tues	Wed	Thurs	Fri
7:30 AM					
8:00 AM					
8:30 AM	CALCULUS 1000A LEC 006	CALCULUS 1000A LEC 006	CALCULUS 1000A LEC 006		CALCULUS 1000A LEC 006
9:00 AM	WSC-55	WSC-55	WSC-55		WSC-55
9:30 AM	CHEM 1301A LEC 002		CHEM 1301A LEC 002		CHEM 1301A LEC 002
10:00 AM	NCB-101		NCB-101		NCB-101
10:30 AM		BIOLOGY 1001A LEC 201		BIOLOGY 1001A LEC 201	
11:00 AM		NCB-101		NCB-101	
11:30 AM					
12:00 PM					
12:30 PM	GEOGRAPH 1500F LEC 001		GEOGRAPH 1500F LEC 001	GEOGRAPH 1500F LEC 001	
1:00 PM	WSC-55		WSC-55	WSC-55	
1:30 PM	PHYSICS 1301A LEC 001		PHYSICS 1301A LEC 001		PHYSICS 1301A LEC 001
2:00 PM	WSC-55		WSC-55		WSC-55
2:30 PM		CHEM 1301A LAB 024			
3:00 PM					
3:30 PM	PHYSICS 1301A LAB 004			BIOLOGY 1001A LAB 039	
4:00 PM					
4:30 PM					
5:00 PM					
5:30 PM					
6:00 PM					
6:30 PM					
7:00 PM					
7:30 PM			INTEGSCI 1000Z LEC 001		
8:00 PM			P&AB-34		
8:30 PM					
9:00 PM					
9:30 PM					

CHEM 1301A  
LAB 024

The date on which you will be doing your lab depends on your lab section. Every course has its own lab schedule, so do not assume that if another course does not have a lab during a certain week, then this course does not have one either. Missed labs will result in a mark of zero unless academic consideration has been granted. There are no labs during the week of October 31<sup>st</sup>.

Experiment	Lab section ends in 1, 3, or 5	Lab section ends in 2, 4, or 6
Lab Practices	Week of September 26 <sup>th</sup>	Week of October 3 <sup>rd</sup>
Synthesis	Week of October 10 <sup>th</sup>	Week of October 17 <sup>th</sup>
Carbonates	Week of October 24 <sup>th</sup>	Week of November 7 <sup>th</sup>
Qualitative Analysis	Week of November 14 <sup>th</sup>	Week of November 21 <sup>st</sup>

There are five possible locations where your lab may be held: Materials Science Addition 1220 zones A, B, C, and D; and Chemistry Building 110. **The location where you will be performing your labs will be posted on OWL PostEm sometime during the week of September 19<sup>th</sup>. It will not be on your timetable on Student Centre.**

## Lateness Policy

Any student who arrives after the doors to the lab have closed, when the “TA talk” begins, is considered to be late and will not be permitted to do the experiment. A mark of zero will be assigned for that experiment.

## Safety and Dress Code

Western is committed to workplace health and safety, and has strict safety regulations. Lab TAs and staff will remove students who, in their opinion, do not meet the safety requirements or are not prepared, as described below. **These students, and those who arrive late, will receive a zero for the entire experiment, and no credit will be given for the prelab exercise.**

Safety glasses or goggles must be worn whenever you are in the laboratory. Students who wear prescription glasses must wear appropriate safety glasses or goggles over their regular glasses. If you wear contact lenses, you must inform the lab TA. **Safety glasses are not available for rent.**

With respect to clothing, Western mandates “shoulder-to-toe” coverage. Details are found in the lab manual. **Shoes, socks, pants, or lab coats are not available for rent.**

Everyone must be wearing a buttoned-up lab coat at all times in the laboratory.

Everyone must wear ankle-length pants, socks that cover the ankle, and shoes that cover the whole foot (top, sides, and back) without any “cutout holes.” Shorts, sandals, and capris are among the items of clothing that are not acceptable. No skin may show at the ankles even when you are seated. Pants with rips or tears, or leggings with mesh panels, are not acceptable.

## Preparation

Before coming to the first experiment, read the Safety Regulations, Introduction, and Significant Figures sections of the lab manual; read the Lab Practices Experiment; view the relevant materials on OWL; and complete the Safety Contract on Achieve. **Bring your lab manual and calculator. Proper attire, including safety glasses and lab coat, is required.**

Prelab exercises must be completed online on Achieve before you arrive. You will be required to present proof of prelab completion on your laptop, tablet, or phone before entering the lab. Access to the prelab exercises on Achieve will be available starting on the first Monday of each lab cycle (September 26, October 10, October 24, and November 14).

## Lab Submissions

Each lab submission has three parts: (1) A prelab exercise that is completed on Achieve prior to your lab session. (2) A *Submit-in-the-Lab Sheet* that is handed in to lab TA at the end of the lab session. (3) A *Smart Worksheet* that is completed on Achieve, which, for labs 1 through 4, are due on **October 14, October 28, November 18, and December 2, by 11:55 pm**, respectively. Of course, you can submit your smart worksheet before the deadline!

Please note that only one submission attempt is possible for each lab by the due date. Second-attempt requests will not be granted without academic consideration.

Obviously, you can only submit a smart worksheet if you had attended the lab session. Submitting one without attending a lab is considered a fraudulent activity that will be investigated in accordance with Western’s policy on scholastic offences.

# Evaluation

## Components

Your overall course grade out of 100 will automatically be the *higher* of grades calculated by the two methods shown below using the respective component weights.

Component	Notes	Method	Method
		1	2
Diagnostic Quiz	Held in class on Wednesday, Sept. 14, and based on high-school chemistry. As long as you complete the quiz, you will receive one mark regardless of your actual score.	1	same
OWL assignment on administrative matters	Due Sunday, Sept. 18 at 11:55 pm. This activity will help you become familiar with the course and with Western. As long as you obtain at least 90%, you will receive one mark regardless of your actual score. You have five (5) attempts to obtain 90%.	1	same
iClicker	Marked on participation only. The score you receive will be based on the percentage of questions you answer: At least 75% = 5      45–54% = 2 65–74% = 4          35–44% = 1 55–64% = 3          Less than 35% = 0	5	same
Laboratory	Four experiments (4.00 each)	16	same
October Quiz	Saturday, October 1, 8:15–9:15 pm	7	same
Midterm Test	Saturday, October 29, 7:30–9:30 pm	30	15
Final Exam	Scheduled by the Registrar, 3.00 hours	40	55

To obtain credit for the course, all three requirements below must be met:

1. Obtain a minimum of 50% on the overall course grade.
2. Obtain a minimum of 50% on the laboratory component (8.00 out of 16). This mark is calculated from all four experiments. A missed experiment is assigned a mark of zero unless it has been “excused” (see section on Missed Course Components).
3. Miss no more than two experiments, whether excused or not.

Students who fail to meet requirement #2 or #3 will receive a course grade no greater than 40% (even if the calculated course grade is higher) and will not receive credit for the course.

## iClicker

In order to receive any credit for the iClicker component, you must:

- Create a free iClicker account using your **Western email address**. Please refer to the instructions at <https://presswestern.uwo.ca/> and on OWL. Add your section of Chem 1301A to your account. If you already have an iClicker account, please go into the settings and verify that it uses your Western email address.
- Attend, and answer iClicker questions in, the lecture section in which you are registered. Questions answered in the incorrect lecture section will not count towards the total number of questions that you answer.
- Ensure that your web-enabled device is working properly. If it is not working, try refreshing the page or restarting the app. It is your responsibility to ensure that your device is working properly. Contact Western Technology Services if you require assistance.

Your Western email ends in  
@uwo.ca.

Using any other email will  
result in mark of zero on the  
iClicker component.

## Equal Opportunity and Evaluation Policy

We are here to help you attain your goals. We want you to do well in the course. We were, at one time, students ourselves, so we understand the importance of course grades and the hard work that you will invest into this course.

Most importantly, we also have to be fair. The university is committed to academic integrity and has high ethical and moral standards. All students will be treated equally and evaluated using the criteria presented in this course outline and their respective weights. The evaluation criteria are based strictly on actual achievement, not on effort or how hard the student tried. Claims of an excellent academic history, of attendance in the course components, or of personal issues (family, relationship, financial, etc.) cannot be used to justify a higher grade in the course because they are not criteria for evaluation. There is no extra work available for extra credit or to “make up” another grade. We do not offer any extra assignments, essays, experiments, or other work of any kind to any student.

The requirement for a higher grade in order to, for example, maintain a scholarship, enter a program, or obtain a higher GPA for various reasons, is not a justifiable reason for increasing your grade. If we increased or “bumped” your grade (*i.e.* gave you a grade that you did not legitimately earn), it would be unfair to the other students and also a great disservice to the scholarships and programs who are evaluating all students on the basis of their grades. Please do not ask us for a grade increase.

## Common Concerns

The table below provides a list of common student concerns and how they are to be addressed. If your concern is not listed here, please contact us using the ticketing system.

Concern	How to Address Concern
All lab-related matters	Visit the lab coordinator, Dr. Naeem Shahid, in MSA 1235. If the coordinator is unable to resolve your concern, appeal in writing via the ticketing system.
My test/exam mark on OWL does not agree with the mark that I had calculated.	The discrepancy is often due to an error that you have made in filling in the Scantron bubbles. The Scantron machine does not make errors when reading your Scantron. If you still wish to view your Scantron, download a Scantron request form from OWL and submit it through the ticketing system no later than two weeks after the release of your mark.

## Student Absences and Missed Course Components

Students who experience an extenuating circumstance (such as illness or injury) sufficiently significant to temporarily render them unable to meet academic requirements may submit a request for academic consideration. In all cases, except where stated, requests must be made through the Academic Counselling unit or Dean's Office of your home faculty or affiliated college regardless of the circumstances or the value of the missed work.

- If you are a Science student, the Academic Counselling Office of the Faculty of Science is located in NCB 280, and can be contacted at 519-661-3040 or through the ticketing system on their website: <https://www.uwo.ca/sci/counselling/>

Students should note that individual instructors are not permitted to receive documentation directly from a student, whether in support of an application for consideration on medical grounds, or for other reasons. **All documentation required for absences must be submitted to the Academic Counselling unit or Dean's Office of your home faculty or affiliated college.**

For more information, please consult Western's policy on academic consideration for absences: [https://www.uwo.ca/univsec/pdf/academic\\_policies/appeals/accommodation\\_illness.pdf](https://www.uwo.ca/univsec/pdf/academic_policies/appeals/accommodation_illness.pdf)

For the Student Medical Certificate (SMC), please see: [http://www.uwo.ca/univsec/pdf/academic\\_policies/appeals/medicalform.pdf](http://www.uwo.ca/univsec/pdf/academic_policies/appeals/medicalform.pdf)

## Missed Diagnostic Quiz or OWL Assignment

**Step 1** A missed Diagnostic Quiz or OWL Assignment will result in a mark of zero with no opportunity for a make-up. However, if extenuating circumstances apply, contact us using the ticketing system within 5 days of the missed activity. There is no need to obtain academic consideration.

**What happens?** You will be granted the participation mark.

## Missed Lab Session

**Step 1** Obtain academic consideration.

**Anything else?** Nope! Please **do not** contact your instructor or submit a ticket, even though your academic consideration may state that you must do so. We will be automatically notified of the academic consideration.

**What happens?** There are no make-up labs, and it is not possible to reschedule them. The missed lab will be “excused” and its weight will be distributed over all of the other labs.

If academic consideration was not obtained, the missed lab will be given a mark of zero.

Tests and exams will contain questions related to the theoretical aspects of the experiments. You are still responsible for the material pertaining to the missed labs.

## Attended Lab Session but Missed Submission Deadline

**Step 1** Obtain academic consideration.

**Step 2** Contact us using the ticketing system and attach any proof of academic consideration that you may have received.

**What happens?** The deadline for your lab report will be extended, and the lab report will be marked without penalty.

Late lab reports will not be accepted without academic consideration.

## Missed Lectures (iClicker Questions)

- Step 1** We understand that you will not be able to attend class from time to time. The participation-based iClicker marking scheme was designed to account for the occasional missed class. Therefore, iClicker marks will not be adjusted for the occasional missed class.
- If you have missed more than 5 classes, obtain academic consideration and continue to Step 2.
- Step 2** Contact us using the ticketing system.
- What happens?** Your iClicker mark will be adjusted at the end of the course to account for the multiple missed classes.

## Missed October Quiz

- Step 1** Obtain academic consideration.
- Anything else?** Nope! Please **do not** contact your instructor or submit a ticket, even though your academic consideration may state that you must do so. We will be automatically notified of the academic consideration.
- What happens?** There is no make-up for the October Quiz. The weight of the quiz will be automatically be shifted to the Midterm Test.

## Missed Midterm Test

- Step 1** Obtain academic consideration.
- Anything else?** Nope! Please **do not** contact your instructor or submit a ticket, even though your academic consideration may state that you must do so. We will be automatically notified of the academic consideration.
- What happens?** You will be able to write the make-up on **Saturday, November 13, 6:30–8:30 pm**.
- If you are unable to write the make-up Midterm Test, you will need to obtain academic consideration again. The weight of the Midterm Test will then be shifted to the Final Exam.

## Missed Final Exam or Multiple Exam Situation

- Step 1** Obtain academic consideration.
- Anything else?** Nope! Please **do not** contact your instructor or submit a ticket, even though your academic consideration may state that you must do so. We will be automatically notified of the academic consideration.
- What happens?** You will be able to write the Special Exam (the name given to a make-up Final Exam) in January of 2023.
- If you miss the Special Exam, you will need to obtain academic consideration again. If it is granted, the date of the next Special Exam will normally be the scheduled date for the Final Exam the next time this course is offered. The maximum course load for the term in which the Special Exam is granted will be reduced accordingly. Please see the section on Special Exams in the Academic Calendar for details:  
[https://www.westerncalendar.uwo.ca/PolicyPages.cfm?Command=showCategory&PolicyCategoryID=5&SelectedCalendar=Live&ArchiveID=#Page\\_65](https://www.westerncalendar.uwo.ca/PolicyPages.cfm?Command=showCategory&PolicyCategoryID=5&SelectedCalendar=Live&ArchiveID=#Page_65).
- Good to know!** If you are in a “Multiple Exam Situation” (more details at [https://registrar.uwo.ca/academics/examinations/exam\\_conflicts.html](https://registrar.uwo.ca/academics/examinations/exam_conflicts.html)), you may be eligible to write the Special Exam.



## How to Attain Your Goals in Chem 1301A

You will be more successful in the course if you recognize the following:

1. Like many sciences, chemistry is a cumulative subject. Because one topic acts as a foundation for the next, it is essential to stay up-to-date by studying the material and doing practice problems.
2. Learn *why* something is the way it is, not just *what* it is. Recognize that memorization is not the same as learning and understanding. When working on questions from the workbook, focus on the concepts, the thought process, how to arrive at the answer, and why the answer is the answer.
3. Don't just come to class – get something out of coming to class. Be attentive. Participate. Think. Write down important points, but avoid spending so much time writing that you're not thinking.
4. Labs are intended to be an enjoyable experience. Prepare for each lab in advance by reading the lab manual and doing the prelab exercise. Learn the theory and the concepts behind the experiment.
5. We're here to help! If you have questions about the course material, ask them well in advance. Ask questions at the Resource Room or on the OWL forum as soon as they arise.
6. To assist in learning and understanding, you are encouraged to study in small groups, where you can challenge yourself by defending your work and ideas and also to challenge others.

## Academic Policies and Legalities

The website for Registrarial Services is <http://www.registrar.uwo.ca>.

In accordance with policy, [https://www.uwo.ca/univsec/pdf/policies\\_procedures/section1/mapp113.pdf](https://www.uwo.ca/univsec/pdf/policies_procedures/section1/mapp113.pdf), the centrally administered e-mail account provided to students will be considered the individual's official university e-mail address. It is the responsibility of the account holder to ensure that e-mail received from the University at his/her official university address is attended to in a timely manner.

It is university policy that a regularly scheduled class (lecture, lab, or tutorial) takes precedence over tests and exams. Therefore, if another course schedules a test or exam that takes place during your chemistry lecture or lab, the instructor for that course must accommodate you.

Aside from the specified calculator, no other electronic devices (phones, iPods, etc.) may be in your possession during tests and exams, even for timekeeping purposes. They may not be at your test/exam desk or in your pocket. Any student found in possession of these prohibited devices will receive a mark of zero on the test or exam.

Scholastic offences are taken seriously and students are directed to read the appropriate policy, specifically, the definition of what constitutes a Scholastic Offence, at this website: [http://www.uwo.ca/univsec/pdf/academic\\_policies/appeals/scholastic\\_discipline\\_undergrad.pdf](http://www.uwo.ca/univsec/pdf/academic_policies/appeals/scholastic_discipline_undergrad.pdf)

Audience response systems ("clickers") will be used to provide immediate feedback on your understanding of course concepts. You must use your own clicker account and may not submit responses for any other student. The data collected using the devices will not be used for research purposes without your consent.

Computer-marked, multiple-choice tests and/or exams may be subject to submission for similarity review by software that will check for unusual coincidences in answer patterns that may indicate cheating.

In the event of a COVID-19 resurgence during the course that necessitates the course delivery moving away from face-to-face interaction, all remaining course content will be delivered entirely online synchronously or asynchronously. Details will be provided as needed. The grading scheme will **not** change. Any remaining assessments will also be conducted online as determined by the course instructor.

The October Quiz, Midterm Test, and Final Exam are in-person assessments. In the event that one or more of these assessments need to be conducted online due to COVID-19, they may be conducted using a remote proctoring service. By taking this course, you are consenting to the use of this software and acknowledge that you will be required to provide **personal information** (including some biometric data) and the session will be **recorded**. Completion of this course will require you to have a reliable internet connection and a device that meets the technical requirements for this service. More information about this remote proctoring service, including technical requirements, is available on Western's Remote Proctoring website at: <https://remoteproctoring.uwo.ca>.

## Additional Support Services

Please visit the Science & Basic Medical Sciences Academic Counselling webpage for information on adding/dropping courses, academic considerations for absences, appeals, exam conflicts, and many other academic related matters: <https://www.uwo.ca/sci/counselling/>.

Students with disabilities are encouraged to contact Accessible Education ([http://academicsupport.uwo.ca/accessible\\_education/index.html](http://academicsupport.uwo.ca/accessible_education/index.html)), which provides recommendations for accommodation based on medical documentation or psychological and cognitive testing. The university's policy on Accommodation for Students with Disabilities can be found here: [https://www.uwo.ca/univsec/pdf/academic\\_policies/appeals/Academic%20Accommodation\\_disabilities.pdf](https://www.uwo.ca/univsec/pdf/academic_policies/appeals/Academic%20Accommodation_disabilities.pdf)

Western is committed to reducing incidents of gender-based and sexual violence and providing compassionate support to anyone who has gone through these traumatic events. If you have experienced sexual or gender-based violence (either recently or in the past), you will find information about support services for survivors, including emergency contacts at [https://www.uwo.ca/health/student\\_support/survivor\\_support/get-help.html](https://www.uwo.ca/health/student_support/survivor_support/get-help.html). To connect with a case manager or set up an appointment, please contact [support@uwo.ca](mailto:support@uwo.ca).

Religious Accommodation: When a course requirement conflicts with a religious holiday that requires an absence from the University or prohibits certain activities, students should request accommodation for their absence in writing at least two weeks prior to the holiday to the Academic Counselling unit or Dean's Office of their home faculty or affiliated college. Please consult University's list of recognized religious holidays (updated annually) at <https://multiculturalcalendar.com/ecal/index.php?s=c-univwo>. The university's policy on Accommodation for Religious Holidays can be found here: [http://www.uwo.ca/univsec/pdf/academic\\_policies/appeals/accommodation\\_religious.pdf](http://www.uwo.ca/univsec/pdf/academic_policies/appeals/accommodation_religious.pdf)

Students who are in emotional/mental distress should refer to Health and Wellness (<https://www.uwo.ca/health>) for a list of options about how to obtain help.

Western University is committed to a thriving campus as we deliver our courses in the mixed model of both virtual and face-to-face formats. We encourage you to check out the Digital Student Experience website to manage your academics and well-being: <https://www.uwo.ca/se/digital>.

Additional student-run support services are offered by the USC, <http://westernusc.ca/services>.

This course is supported by the Science Student Donation Fund. If you are a BSc or BMSc student registered in the Faculty of Science or Schulich School of Medicine and Dentistry, you pay the Science Student Donation Fee. This fee contributes to the Science Student Donation Fund, which is administered by the Science Students' Council (SSC). One or more grants from the Fund have allowed for the purchase of equipment integral to teaching this course. You may opt out of the Fee by the end of September of each academic year by completing paperwork in the Faculty of Science's Academic Counselling Office. For further information on the process of awarding grants from the Fund or how these grants have benefitted undergraduate education in this course, consult the chair of the department or email the Science Students' Council at [ssc@uwo.ca](mailto:ssc@uwo.ca).